



2001 Toxics Release Inventory

VIRGINIA

Reported Releases and Other Waste Management Activities (in pounds)

	Total
On-site Releases	70,615,561
Air Emissions	57,216,768
Surface Water Discharges	6,963,083
Underground Injection Class I Wells	0
Underground Injection Class II-V Wells	5
On-site Land Releases to RCRA Subtitle C Landfills	1,076
Other On-site Land Releases	6,434,629
Off-site Releases (Transfers Off-site to Disposal)*	9,168,292
Total On- and Off-site Releases	79,783,853
Recycled On-site	94,850,493
Recycled Off-site	27,992,872
Energy Recovery On-site	27,825,485
Energy Recovery Off-site	8,615,846
Treated On-site	140,163,993
Treated Off-site**	20,535,606
Quantity Released On- and Off-site***	79,923,229
Total Production-related Waste Managed	399,907,524
Non-production-related Waste Managed	89,462
Transfers Off-site for Further Waste Management, including Disposal	
Recycling	28,052,142
Energy Recovery	8,599,641
Treatment	2,840,108
Publicly Owned Treatment Works (POTWs)	17,805,646
Metals and Metal Category Compounds*	53,822
Non-metal TRI Chemicals**	17,751,825
Other Off-site Transfers****	505
Transfers Off-site to Disposal (not including metals to POTWs)	9,174,635
Total Transfers Off-site for Further Waste Management, including Disposal	66,472,678

- * Transfers to POTWs of metals and metal category compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- ** Transfers to POTWs of non-metals are included in treated off-site waste management activity.
- *** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.
- **** Transfers reported without a valid waste management code.

For More Information . . .

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To obtain TRI data use
assistance, call TRI User
Support Service (TRI-US):
(202) 566-0250
tri.us@epa.gov



The largest circle in the state map represents the largest facility for on-site releases in the state of Virginia. All circles are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	7,196,750
Square Miles	39,598
Total Facilities	507
Total Forms	2,020
Form As	233

	Total
National Rank for Total On- and Off-site Releases*	
Rank	22
Pounds	79,783,853
National Rank for Total On-site Releases**	
Rank	22
Pounds	70,615,561
National Rank for Total Releases within State***	
Rank	22
Pounds	78,063,914
National Rank for Production-related Waste Managed	
Rank	22
Pounds	399,907,524

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On-site and Off-site Releases for Top Five Chemicals Ranked on Total Releases in the State (All Chemicals)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	18,921,197	0	0	0	0	18,921,197	0	0	0
67-56-1	Methanol	8,945,573	22,895	0	14,250	41,250	9,023,968	1,835	41,250	0
7664-41-7	Ammonia	7,866,819	93,001	0	35,707	146,356	8,141,883	8,977	12,432	133,924
—	Nitrate compounds	2,259	6,450,212	0	65,523	16,478	6,534,472	0	10,012	6,466
—	Zinc compounds	112,681	25,675	0	1,021,023	3,917,713	5,077,092	88,754	3,828,867	88,846

On-site and Off-site Releases for PBT Chemicals Ranked on Total Releases in the State

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7439-92-1	Lead	8,086.01	309.64	0.00	136,568.63	413,363.01	558,327.29	1.33	284,816.68	128,546.33
—	Lead compounds	36,841.12	5,424.05	0.00	232,350.22	159,301.30	433,916.69	4,444.91	133,753.53	25,547.77
—	Polycyclic aromatic compounds	9,105.33	43.94	0.00	7.18	163.04	9,319.49	7,365.10	162.29	0.75
—	Mercury compounds	2,877.37	22.10	0.00	704.70	1,194.83	4,799.00	142.90	1,154.12	40.71
1336-36-3	Polychlorinated biphenyls (PCBs)	1.24	0.00	0.00	0.00	294.70	295.94	0.00	60.70	234.00
7439-97-6	Mercury	40.20	0.00	0.00	3.00	42.83	86.02	0.00	32.76	10.07
191-24-2	Benzo(g,h,i)perylene	35.03	5.00	0.00	0.32	17.57	57.91	16.00	11.97	5.60
—	Dioxin and dioxin-like compounds	0.26	0.00	0.00	0.00	0.10	0.36	0.00	0.10	0.00
—	<i>Dioxin and dioxin-like compounds (in grams)</i>	<i>116.781</i>	<i>0.714</i>	<i>0.000</i>	<i>1.381</i>	<i>43.633</i>	<i>162.509</i>	<i>0.000</i>	<i>43.633</i>	<i>0.000</i>
309-00-2	Aldrin	—***	—	—	—	—	—	—	—	—
57-74-9	Chlordane	—***	—	—	—	—	—	—	—	—
76-44-8	Heptachlor	—***	—	—	—	—	—	—	—	—
118-74-1	Hexachlorobenzene	—***	—	—	—	—	—	—	—	—
465-73-6	Isodrin	—***	—	—	—	—	—	—	—	—
72-43-5	Methoxychlor	—***	—	—	—	—	—	—	—	—
29082-74-4	Octachlorostyrene	—***	—	—	—	—	—	—	—	—
40487-42-1	Pendimethalin	—***	—	—	—	—	—	—	—	—
608-93-5	Pentachlorobenzene	—***	—	—	—	—	—	—	—	—
79-94-7	Tetrabromobisphenol A	—***	—	—	—	—	—	—	—	—
8001-35-2	Toxaphene	—***	—	—	—	—	—	—	—	—
1582-09-8	Trifluralin	—***	—	—	—	—	—	—	—	—

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

*** No reports were submitted for these chemicals.

** The chemical ranking is based on the amounts in this column.



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On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (All Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases	
	Underground Injection				On-site Releases to Land			(Transfers Off-site to Disposal)	
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds		Transferred Within State Pounds	Transferred Out of State Pounds
Chesterfield Power Station, Chester, Chesterfield	4,889,638	23,983	0	0	0	1,375,009	6,288,630	0	0
Westvaco of Virginia. Inc., Covington, Covington City	4,516,606	63,740	0	0	0	302,015	4,882,361	0	0
Honeywell Intl. Inc. Hopewell Plant, Hopewell, Hopewell City	4,684,302	123,888	0	0	0	0	4,808,190	10,630	1,120
Chesapeake Energy Center, Chesapeake, Chesapeake City	2,470,655	11,751	0	0	0	736,000	3,218,406	0	0
U.S. Army Radford Army Ammunition Plant, Radford, Radford City	251,822	2,910,218	0	0	0	0	3,162,040	0	252
International Paper-Franklin Mill, Franklin, Franklin City	2,793,629	84,065	0	0	0	0	2,877,694	533,938	0
Potomac River Generating Station, Alexandria, Alexandria City	2,647,979	2,794	0	0	0	0	2,650,774	18	367,204
Celanese Acetate Celco Plant, Narrows, Giles	2,374,649	79,383	0	0	0	71,182	2,525,214	0	541
American Electric Power Clinch River Plant, Cleveland, Russell	2,152,283	2,081	0	0	0	335,592	2,489,956	0	4,487
Yorktown Power Station, Yorktown, York	1,724,084	33,009	0	0	0	489,023	2,246,116	9,109	0

On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (PBT Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Intermet Archer Creek Fndy., Lynchburg, Lynchburg City	80.00	0.00	0.00	0.00	0.00	107,617.00	107,697.00	142,578.00	0.00
U.S. Marine Corps Base Quantico Range Complex, Quantico, Prince William	540.00	0.00	0.00	0.00	0.00	51,942.00	52,482.00	0.00	0.00
Chesterfield Power Station, Chester, Chesterfield	6,913.50	43.00	0.00	0.00	0.00	41,009.00	47,965.50	0.00	0.00
Clover Power Station, Clover, Halifax	5,014.00	21.00	0.00	0.00	0.00	33,450.00	38,485.00	0.00	0.00
Chesapeake Energy Center, Chesapeake, Chesapeake City	3,690.00	2.00	0.00	0.00	0.00	22,000.00	25,692.00	0.00	0.00
U.S. Army Fort A.P. Hill Training Ranges DPTMS FAPH, Bowling Green, Caroline	675.00	59.58	0.00	0.00	0.00	22,224.63	22,959.20	0.00	0.00
Yorktown Power Station, Yorktown, York	2,114.31	380.00	0.00	0.00	0.00	13,023.00	15,517.31	239.00	0.00
American Electric Power Clinch River Plant, Cleveland, Russell	251.56	0.00	0.00	0.00	0.00	14,055.00	14,306.56	0.00	206.00
Possum Point Power Station, Dumfries, Prince William	1,991.00	31.00	0.00	0.00	0.00	12,012.00	14,034.00	0.00	0.00
Westvaco of Virginia. Inc., Covington, Covington City	706.70	470.20	0.00	0.00	0.00	12,078.30	13,255.21	0.00	0.00

* The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (All Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Chesterfield Power Station, Chester, Chesterfield	0	0	0	0	0	0	6,289,304	6,289,304	0
Westvaco of Virginia, Inc., Covington, Covington City	0	0	573,800	0	20,089,560	0	4,862,316	25,525,676	0
Honeywell Intl. Inc. Hopewell Plant, Hopewell, Hopewell City	1,757,485	0	2,004,738	14,380	1,285,840	594,526	4,819,690	10,476,659	0
International Paper-Franklin Mill, Franklin, Franklin City	0	10	6,674,000	0	34,150,103	0	3,399,671	44,223,784	0
Roanoke Electric Steel Corp., Roanoke, Roanoke City	0	0	0	0	0	0	3,253,855	3,253,855	0
Chesapeake Energy Center, Chesapeake, Chesapeake City	0	0	0	0	520,000	0	3,222,290	3,742,290	0
U.S. Army Radford Army Ammunition Plant, Radford, Radford City	37,000,000	771	0	0	2,890,036	0	3,162,292	43,053,099	1
Potomac River Generating Station, Alexandria, Alexandria City	0	0	0	0	0	0	3,017,995	3,017,995	0
Celanese Acetate Celco Plant, Narrows, Giles	0	11	975,962	1,674	115,923	134	2,525,420	3,619,124	0
American Electric Power Clinch River Plant, Cleveland, Russell	0	18,600	0	0	427,000	0	2,498,202	2,943,802	0

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (PBT Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Intermet Archer Creek Fndy., Lynchburg, Lynchburg City	2,638.00	18,507.00	0.00	0.00	0.00	0.00	250,408.00	271,553.00	0.00
Roanoke Electric Steel Corp., Roanoke, Roanoke City	0.00	0.00	0.00	0.00	0.00	0.00	136,072.00	136,072.00	0.00
GE Winchester Lamp Plant, Winchester, Winchester City	0.00	87,477.00	0.00	0.00	0.00	0.00	70,695.00	158,172.00	0.00
Griffin Pipe Prods. Co., Lynchburg, Lynchburg City	0.00	282.00	0.00	0.00	0.00	0.00	56,274.00	56,556.00	0.00
U.S. Marine Corps Base Quantico Range Complex, Quantico, Prince William	0.00	0.00	0.00	0.00	0.00	0.00	52,482.00	52,482.00	0.00
Chesterfield Power Station, Chester, Chesterfield	0.00	0.00	0.00	0.00	0.00	0.00	49,304.00	49,304.00	0.00
Clover Power Station, Clover, Halifax	0.00	0.00	0.00	0.00	0.00	0.00	38,470.00	38,470.00	0.00
Chesapeake Energy Center, Chesapeake, Chesapeake City	0.00	0.00	0.00	0.00	0.00	0.00	26,290.00	26,290.00	0.00
Emporia Fndy. Inc., Emporia, Emporia City	0.00	0.00	0.00	0.00	0.00	0.00	25,860.00	25,860.00	0.00
Times Fiber Communications Inc., Chatham, Pittsylvania	0.00	845.00	0.00	0.00	0.00	0.00	25,146.00	25,991.00	0.00

* The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.